

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	135	29/25.35,594,595.ccls. and piezoelectric and sensor	USPAT; JPO	OR	ON	2002/08/28 11:51
S2	1	(29/25.35,594,595.ccls. and piezoelectric and sensor) and ((backing adj layer) same polymer)	USPAT; JPO	OR	ON	2002/08/28 10:59
S3	3	(29/25.35,594,595.ccls. and piezoelectric and sensor) and (backing adj layer)	USPAT; JPO	OR	ON	2002/08/28 11:00
S4	9	(composite adj structure) and piezoelectric and (backing adj layer)	USPAT; JPO	OR	ON	2002/08/28 11:51
S5	21	((composite same piezoelectric) and (polymer adj layer)) and adhesive	USPAT; JPO	OR	ON	2002/08/28 11:03
S6	59	(composite same piezoelectric) and (polymer adj layer)	USPAT; JPO	OR	ON	2002/08/28 11:20
S7	44	(monolithic adj piezoelectric) and (cut\$3 or slic\$3)	USPAT; JPO	OR	ON	2002/08/28 11:45
S8	17	29/25.35,594,595.ccls. and piezoelectric and (polyme\$3 adj layer)	USPAT; JPO	OR	ON	2002/08/28 11:37
S9	27	310/357,358,327,328,323,366,367. ccls. and piezoelectric and (polyme\$3 adj layer)	USPAT; JPO	OR	ON	2002/08/28 11:38
S10	288	(composite adj structure) and (backing adj layer)	USPAT; JPO	OR	ON	2002/08/28 11:51
S11	163	((composite adj structure) and (backing adj layer)) and (cut\$3 or slic\$3)	USPAT; JPO	OR	ON	2002/08/28 11:45
S12	6	((composite adj structure) and (backing adj layer)) and (cut\$3 or slic\$3)) and piezoelectric	USPAT; JPO	OR	ON	2002/08/28 11:51
S13	9	((composite adj structure) and (backing adj layer)) and piezoelectric	USPAT; JPO	OR	ON	2002/08/28 11:51
S14	301	piezoelectric and (backing adj layer)	USPAT; JPO	OR	ON	2002/08/28 11:52
S15	132	piezoelectric same (backing adj layer)	USPAT; JPO	OR	ON	2002/08/28 11:52
S16	16	("4217684"   "4611372"   "4747192"   "4825115"   "4939826"   "5044053"   "5267221"   "5311095"   "5329498"   "5457863"   "5559388"   "5592730"   "5644085"   "5711058"   "6038752"   "6110314").PN.	USPAT	OR	ON	2002/08/28 11:57

## EAST Search History

S17	57	polymer adj film adj carrier	USPAT; JPO; DERWENT	OR	ON	2003/02/01 15:43
S18	66	fiber same ((polymer adj film adj carrier) or (polymer adj carrier))	USPAT; JPO; DERWENT	OR	ON	2003/02/01 15:52
S19	334	wilkie.in.	USPAT; JPO; DERWENT	OR	ON	2003/02/01 15:51
S20	0	wilkie.in. and keats	USPAT; JPO; DERWENT	OR	ON	2003/02/01 15:51
S21	0	wilkie-keats.in.	USPAT; JPO; DERWENT	OR	ON	2006/05/18 08:29
S22	0	keats-wilkie.in.	USPAT; JPO; DERWENT	OR	ON	2003/02/01 15:51
S23	0	wilkie.in. and ((polymer adj film adj carrier) or (polymer adj carrier))	USPAT; JPO; DERWENT	OR	ON	2003/02/01 15:52
S24	1429	fiber same (backing adj layer)	USPAT; JPO; DERWENT	OR	ON	2003/02/01 15:55
S25	663	(fiber same (backing adj layer)) and polymer	USPAT; JPO; DERWENT	OR	ON	2003/02/01 15:54
S26	19089	((fiber same (backing adj layer)) and polymer) an piezoelectric	USPAT; JPO; DERWENT	OR	ON	2003/02/01 15:54
S27	2	((fiber same (backing adj layer)) and polymer) and piezoelectric	USPAT; JPO; DERWENT	OR	ON	2003/02/01 15:54
S28	2530	fiber same (backing adj (layer or sheet))	USPAT; JPO; DERWENT	OR	ON	2003/02/01 15:56
S29	3	(fiber same (backing adj (layer or sheet))) and polymer and piezoelectric	USPAT; JPO; DERWENT	OR	ON	2003/02/01 15:56
S30	2658	29/609,830,851,887.ccls.	USPAT; JPO; DERWENT	OR	ON	2003/02/05 09:35
S31	3	(monolithic adj piezoelectric) and 29/609,830,851,887.ccls.	USPAT; JPO	OR	ON	2003/02/05 09:36
S32	12	29/609,830,851,887.ccls. and piezoelectric	USPAT; JPO; DERWENT	OR	ON	2003/02/05 09:37

## EAST Search History

S33	171	310/328,334,336.ccls. and (carrier or wax)	USPAT; JPO; DERWENT	OR	ON	2003/02/06 11:02
S34	150	(310/328,334,336.ccls. and (carrier or wax)) and piezoelectric	USPAT; JPO; DERWENT	OR	ON	2003/02/06 11:03
S35	140	((310/328,334,336.ccls. and (carrier or wax)) and piezoelectric) and @ay<"2000"	USPAT; JPO; DERWENT	OR	ON	2003/02/06 11:03
S36	20	((310/328,334,336.ccls. and (carrier or wax)) and piezoelectric) and @ay<"2000") and ((peel\$3 or remov\$3) same (carrier or wax))	USPAT; JPO; DERWENT	OR	ON	2003/02/06 11:07
S37	167	156/299,300,301.ccls. and (carrier or wax)	USPAT; JPO; DERWENT	OR	ON	2003/02/06 11:06
S38	2	(156/299,300,301.ccls. and (carrier or wax)) and piezoelectric	USPAT; JPO; DERWENT	OR	ON	2003/02/06 11:03
S39	66	(156/299,300,301.ccls. and (carrier or wax)) and ((peel\$3 or remov\$3) same (carrier or wax))	USPAT; JPO; DERWENT	OR	ON	2003/02/06 11:03
S40	63	((156/299,300,301.ccls. and (carrier or wax)) and ((peel\$3 or remov\$3) same (carrier or wax))) and @ay<"2000"	USPAT; JPO; DERWENT	OR	ON	2003/02/06 11:07
S41	177	427/99,100.ccls. and (carrier or wax)	USPAT; JPO; DERWENT	OR	ON	2003/02/06 11:07
S42	47	(427/99,100.ccls. and (carrier or wax)) and ((peel\$3 or remov\$3) same (carrier or wax))	USPAT; JPO; DERWENT	OR	ON	2003/02/06 11:07
S43	44	((427/99,100.ccls. and (carrier or wax)) and ((peel\$3 or remov\$3) same (carrier or wax))) and @ay<"2000"	USPAT; JPO; DERWENT	OR	ON	2003/02/06 11:07
S44	2	("6629341").PN.	USPAT; USOCR; JPO; DERWENT	OR	OFF	2005/07/18 11:16
S45	63	Wilkie-Keats-W.in. or Bryant-Robert-G.in. or Fox-Robert-L.in. or Hellbaum-Richard-F.in. or High-James-W.in. or Jalink-Antony-JR.in. or Little-Bruce-D.in. or Mirick-Paul-H.in.	USPAT; JPO; DERWENT	OR	ON	2006/05/18 08:30

## EAST Search History

S46	341	piezoelectric adj composite	USPAT; JPO; DERWENT	OR	ON	2005/07/19 15:22
S47	1	S45 and S46	USPAT; JPO; DERWENT	OR	ON	2005/07/18 11:19
S48	27	("4250603"   "4479069"   "4613784"   "4747192"   "4939826"   "5239736"   "5340510"   "5527480"   "5539965"   "5645753"   "5656882"   "5687462"   "5692279"   "5702629"   "5849125"   "5860202"   "5869189"   "5874868"   "5977691"   "6038752"   "6043588"   "6048622"   "6069433"   "6088894"   "6255761"   "6404107"   "6489706").PN.	US-PPGPUB; USPAT; USOCR	OR	ON	2005/07/18 11:19
S49	6	(("5539965") or ("6088894") or ("6404107")).PN.	USPAT; USOCR; JPO; DERWENT	OR	OFF	2005/07/19 13:28
S50	34	("3114849"   "3582691"   "4054808"   "4240002"   "4363991"   "4404489"   "4458173"   "4461179"   "4578611"   "4611141"   "4638206"   "4651310"   "4680595"   "4732351"   "4742264"   "4761582"   "4849668"   "4857887"   "4864179"   "4914565"   "5126615"   "5305507"   "5315203"   "5404067"   "5415175"   "5424596"   "5438998"   "5493541"   "5632841"   "5656882"   "5687462"   "5786655"   "6043587").PN.	US-PPGPUB; USPAT; USOCR	OR	ON	2005/07/18 11:26
S51	23	("4353958"   "4514247"   "4518889"   "4564980"   "4572981"   "4717851"   "4747192"   "4939826"   "4958327"   "4977655"   "5153859"   "5263004"   "5311095"   "5327895"   "5329496"   "5359760"   "5503152"   "5548564"   "5620476"   "5625149"   "5629578"   "5650885"   "5684884").PN.	US-PPGPUB; USPAT; USOCR	OR	ON	2005/07/18 11:29

## EAST Search History

S52	23	("4353958"   "4514247"   "4518889"   "4564980"   "4572981"   "4717851"   "4747192"   "4939826"   "4958327"   "4977655"   "5153859"   "5263004"   "5311095"   "5327895"   "5329496"   "5359760"   "5503152"   "5548564"   "5620476"   "5625149"   "5629578"   "5650885"   "5684884").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/18 11:31
S53	9	(US-3114849-\$ or US-4638206-\$ or US-4732351-\$ or US-4939826-\$ or US-5977691-\$ or US-6038752-\$ or US-6043588-\$ or US-6088894-\$ or US-6489706-\$).did.	USPAT	OR	ON	2005/07/19 13:29
S54	10	(US-3114849-\$ or US-4638206-\$ or US-4732351-\$ or US-4939826-\$ or US-5977691-\$ or US-6038752-\$ or US-6043588-\$ or US-6088894-\$ or US-6489706-\$ or US-6404107-\$).did.	USPAT	OR	ON	2005/07/19 13:30
S55	5	S54 and (adhesive or epoxy)	USPAT; JPO; DERWENT	OR	ON	2005/07/19 15:23
S56	1	(US-6404107-\$).did.	USPAT	OR	ON	2005/07/19 14:51
S57	1	S56 and copper	USPAT; JPO; DERWENT	OR	ON	2005/07/19 14:51
S58	67	piezoelectric adj composite	EPO; JPO	OR	ON	2005/07/19 15:22
S59	63	S58 and @ad<"19991029"	EPO; JPO	OR	ON	2005/07/19 15:23
S60	6	S59 and (adhesive or epoxy)	USPAT; JPO; DERWENT	OR	ON	2005/07/19 15:23
S62	77	Wilkie-Keats-W.in. or Bryant-Robert-G.in. or Fox-Robert-L.in. or Hellbaum-Richard-F.in. or High-James-W.in. or Jalink-Antony-JR.in. or Little-Bruce-D.in. or Mirick-Paul-H.in.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/05/18 08:30
S63	60	(piezoelectric near material) with (adhesive near material)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/05/18 08:35
S64	8	(stack\$3 or alternat\$3 or forming) with (piezoelectric near material) with (adhesive near material)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/05/18 08:34

## EAST Search History

S65	2	S62 and S64	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/05/18 08:32
S66	0	(piezoelectric near material) with (adhesive near material) with IDT	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/05/18 08:35
S67	1	(piezoelectric near material) with (adhesive near material) with interdigita\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/05/18 08:36